

What is claimed is:

1 1. A system for punching holes through a continuous film comprising:  
2 a framework to facilitate transport of said continuous film;  
3 an optical encoder mounted to a sensing roller; said sensing roller connected to a shaft and  
4 said framework and rotated via contact with said transported continuous film;  
5 a plurality of transport rollers connected to shafts and said framework; said rollers rotated via  
6 contact with said transported continuous film;  
7 software for signaling the punching of holes through said transported continuous film.

1 2. A method system for punching holes through a continuous film comprising:  
2 determining a hole pattern to be punched through a continuously transported film;  
3 determining a punching location for punching said determined hole pattern through said  
4 continuously transported film;  
5 signaling the punching of said determined hole pattern through said continuously transported  
6 film at said determined punching location;  
7 punching said determined hole pattern through said continuously transported film at said  
8 determined punching location.

1 3. The method of claim 2 wherein said determining a punching location for punching said  
2 determined hole pattern through said continuously transported film further comprises;  
3 communication of a signal from an optical scanner to a computer; said signal indicating travel  
4 measures of said continuously transported film;

5 analyzing said communicated travel measures;

6 signaling the punching of a determined hole pattern whenever said analyzed travel measures

7 reveal the presence of a punching location for punching said determined hole pattern through said

8 continuously transported film.

1 4. The method of claim 2 wherein said signaling the punching of said determined hole pattern  
2 through said continuously transported film at said determined punch location further comprises the  
3 signaling and punching of a variable hole pattern through said continuously transported film at said  
4 determined punch location.

1 5. A computer program for punching holes through a transported continuous film comprising:  
2 a code segment for determining an appropriate punching location for punching holes through  
3 said continuously transported film;  
4 a code segment for signaling the punching of said holes through said continuously transported  
5 film at said appropriate punching location.

1 6. The computer program for punching holes through a transported continuous film according  
2 to claim 5 wherein said inputting a pre-selected hole pattern to be punched through said continuously  
3 transported film and further comprises the inputting and punching of a plurality of said pre-selected  
4 hole patterns.

1 7. The computer program for punching holes through a transported continuous film according  
2 to claim 5 wherein said determining an appropriate location for punching a hole pattern through said  
3 continuously transported film further comprises:

4 repeated punching of said pre-selected hole pattern for subsequent punching operations  
5 following first occasion of punching a hole pattern through said continuously transported film.

1 8. The computer program for punching holes through a transported continuous film according  
2 to claim 7 wherein said inputting a pre-selected hole pattern to be punched through said continuously  
3 transported film and further comprises the inputting and punching of a plurality of said pre-selected  
4 hole patterns.

1 9. An apparatus for punching holes through a transported continuous film comprising:  
2 a framework,  
3 a plurality of rollers attached to said framework;  
4 an optical encoder attached to at least one roller within said plurality of rollers;  
5 a punch assembly connected to said framework;  
6 a solenoid valve connected to said punch assembly;  
7 a compressed air source connected to said solenoid valve.

1 10. The apparatus of claim 9 further comprising:  
2 a plurality of solenoid valves connected to a plurality of punch assemblies; said plurality of  
3 punch assemblies connected to said framework;

4 a computer communicably attached to said apparatus for punching holes through a  
5 transported continuous film.

1 11. A punched film produced according to the process of claim 2.

1 12. A punched film according to claim 11 wherein said film is essentially of polyethylene  
2 composition.

1 13. A punched film according to claim 11 wherein said film is essentially of non-polyethylene  
2 composition.

1 14. A punched film produced according to the process of claim 3.

1 15. A punched film produced according to the process of claim 4.